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=> S LAMINATE

74410 LAMINATE

55891 LAMINATES

L1 91605 LAMINATE

(LAMINATE OR LAMINATES)

=> S FIBERBOARD OR FIBREBOARD

3272 FIBERBOARD

2725 FIBERBOARDS

3952 FIBERBOARD

(FIBERBOARD OR FIBERBOARDS)

49 FIBREBOARD

4 FIBREBOARDS

52 FIBREBOARD

(FIBREBOARD OR FIBREBOARDS)

L2 3994 FIBERBOARD OR FIBREBOARD

=> S POLYETHYELENE OR POLYPROPYLENE 87 POLYETHYELENE

1 POLYETHYELENES

88 POLYETHYELENE

(POLYETHYELENE OR POLYETHYELENES)

131127 POLYPROPYLENE

1760 POLYPROPYLENES

131318 POLYPROPYLENE

(POLYPROPYLENE OR POLYPROPYLENES)

131396 POLYETHYELENE OR POLYPROPYLENE L3

=> S L1 AND L2 AND L3

34 L1 AND L2 AND L3

=> D 1-34 BIB, ABS

ANSWER 1 OF 34 CAPLUS COPYRIGHT 2002 ACS

AN 2002:514493 CAPLUS

DN 137:79930

Reactive hot-melt polyurethane adhesives and manufacture of wood TТ decorative materials

Ezaki, Akihiko; Kawaguchi, Tadayuki; Hama, Shinjiro; Kakuta, Shohei IN

Nippon Polyurethane Industry Co., Ltd., Japan PA

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DTPatent

Japanese LΑ

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2002194318 A2 20020710 JP 2000-396418 20001227

PΙ

The adhesives comprise isocyanate-terminated urethane prepolymers manufd. AB from (A) polymer polyols contg. cryst. polyols having Mn of 2000-10,000 and noncryst. polyols having Mn of 300-800 at wt. ratio of 90/10-40/60 and (B) org. polyisocyanates. Thus, an adhesive manufd. from 1,6-hexanediol-adipic acid copolymer diol (Mn 5000) 660, isophthalic acid-terephthalic acid-ethylene glycol-neopentyl glycol copolymer diol (Mn 500) 165, and MDI 262 kg showed viscosity increase <50% after melting at 120.degree. and storage for 8 h. Then, a medium-d. fiberboard was hot-pressed with a polypropylene sheet having a wood grain pattern via the adhesive to give a test piece showing 180.degree. peeling strength 1.8 and 2.3 kN/m after storage for 10 min and 24 h, resp. and good water resistance.

- ANSWER 2 OF 34 CAPLUS COPYRIGHT 2002 ACS L4
- 2002:377830 CAPLUS AN
- DN 136:370813
- Decorative paper sheet having ionizing radiation-curable resin surface ТT layer and decorative material using the sheet
- IN Yokochi, Eiichiro; Takeuchi, Hajime
- PA Dainippon Printing Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DТ Patent

Japanese LΑ

FAN.CNT 1

PΙ

PATENT NO. KIND DATE APPLICATION NO. DATE PATENT NO. KIND DATE -----JP 2002144490 A2 20020521 JP 2000-350913 20001117

The sheet consists of an ionizing radiation-cured crosslinked resin surface layer, a paper support, and an elastic resin layer having tensile strength (JIS K 6301) .gtoreq.40 MPa, which are laminated in this order from the front side. The sheet shows retention of mech. strength even if the paper is damaged in ionizing radiation irradn. in curing of the surface layer. The sheet is applied on a substrate by using an adhesive to give the decorative material. Thus, a paper support was

gravure-printed with a polyester-polyol (tensile strength 40 MPa) on 1 side, gravure-printed on the other side to form a pattern, overcoated with a mixt. of polyester acrylate 60, trimethylolpropane triacrylate 10, 1,6-hexanediol diacrylate 29, and siloxane acrylate 1 part on the pattern layer, and electron beam-irradiated on the overcoating layer to give the decorative sheet, which was applied on a medium-d. fiberboard through an adhesive to give decorative material showing folding endurance in machine direction and cross direction.

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L4 ANSWER 3 OF 34 CAPLUS COPYRIGHT 2002 ACS
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- AN 2002:343519 CAPLUS
- DN 136:342431
- TI Molded board made of wooden fiber mixture bound by thermoplastic resin and manufacture of the board
- IN Matsuo, Tetsuya; Ito, Kyoichi
- PA Nichiha Corporation, Japan
- SO Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

- PI JP 2002127114 A2 20020508 JP 2000-327066 20001026
- AB The board is that manufd. from a mixt. of comprising a wooden fiber, a long vegetable fiber, and thermoplastic resin fiber by (1) heat compressing at a temp. higher than the m.p. of the thermoplastic resin so that the wooden fiber and the vegetable fiber are bound by the melted thermoplastic resin and (2) laminating of fiber sheets having m.p. higher than the m.p. of the thermoplastic resin on the both side surfaces. The board is manufd. by the process involving needle punching of the above fiber mixt., laminating of the fiber sheets on the both sides of the resulting mat, and compressing of the laminate under a temp. higher than the m.p. of the thermoplastic resin and lower than that of the fiber sheets. The board is manufd. by the process without releasing toxic gas or malodor. Thus, a needle-punched mat comprising pulp 3, flax 47, and polypropylene fiber 50% was sandwiched between polyester nonwoven fabrics and hot pressed at 210.degree. for 40 s to give the board, which was sandwiched between 2 plates and cold-pressed to give a board for an automobile door trim panel.
- L4 ANSWER 4 OF 34 CAPLUS COPYRIGHT 2002 ACS
- AN 2002:301679 CAPLUS
- DN 136:326611
- TI Antifungal waterproofing polyolefin decorative sheets
- IN Sendai, Hisami
- PA Dainippon Printing Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 12 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN. CNT 1

PΙ

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002120331	A2	20020423	JP 2000-313204	20001013

AB The decorative sheet, useful for bathrooms, kitchens, etc., comprises a non-transparent polyolefin base layer, a decorative layer, and a transparent polyolefin layer contg. thiazolines or thiazolines and zinc oxide as an antifungal agent. Thus, a base sheet comprising high-d. polypropylene (I) and butadiene-styrene rubber (II) was printed on the surface, laminated with a transparent layer comprising I, II, and octylthiazoline, embossed, over-coated with an ink contg. octylthiazoline, and further laminated with a steel plate to give a decorative board for a bathroom wall showing good antimold properties even after a surface

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abrasion test.
     ANSWER 5 OF 34 CAPLUS COPYRIGHT 2002 ACS
L4
AN
     2002:204851 CAPLUS
DN
     136:233307
     Embossed polyolefin laminated decorative sheets with high surface hardness
ΤI
IN
     Nakai, Yasuo
     Dainippon Printing Co., Ltd., Japan
PA
SO
     Jpn. Kokai Tokkyo Koho, 10 pp.
     CODEN: JKXXAF
DΤ
    Patent
     Japanese
LΑ
FAN.CNT 1
     APPLICATION NO. DATE
                                         -----
    JP 2002079629 A2 20020319 JP 2000-270944 20000907
PΙ
AB
    The sheets, useful for substitutes for PVC-based sheets, have lower
     thermoplastic polyolefin layers, upper cryst. polyolefin layers, and
     surface protective layers manufd. from ionizable radiation-curable resins.
     Thus, a laminate contg. a lower layer contg.
     ethylene-propylene-butene rubber, an upper layer contg. cryst.
     polypropylene, and a surface protective layer comprising electron
     beam-cured acrylic polyurethane was embossed to give a decorative sheet
     for floor. The decorative sheet was laminated with a medium-d.
     fiberboard to give a test piece showing pencil hardness F.
    ANSWER 6 OF 34 CAPLUS COPYRIGHT 2002 ACS
L4
     2001:843623 CAPLUS
AN
DN
     135:372775
     Decorative sheet-laminated ligneous plates having natural wood-like
TI
     Takahashi, Hiroaki; Nishino, Yoshikazu
IN
     Dainippon Printing Co., Ltd., Japan
PA
     Jpn. Kokai Tokkyo Koho, 8 pp.
SO
     CODEN: JKXXAF
DT
     Patent
    Japanese
LA
FAN.CNT 1
                   KIND DATE
                                   APPLICATION NO. DATE
    PATENT NO.
    JP 2001322223 A2 20011120
                                         -----
                                         JP 2000-145016 20000517
PΙ
    The decorative plate comprises (A) a ligneous substrate with grainings on the surface laminated thereon, via (B) a layer of a transparent adhesive
AΒ
     consisting of (c1) a primer of a transparent polyol-isocyanate system
```

the surface laminated thereon, via (B) a layer of a transparent adhesive which show vol. shrinkage on caking or curing, with (C) a decorative sheet consisting of (c1) a primer of a transparent polyol-isocyanate system 2-pot polyurethane adhesive, (c2) a transparent thermoplastic resin layer, and (c3) a transparent gloss-controlling layer of a polyol-isocyanate system 2-pot polyurethane adhesive. The decorative sheet has conformity to dents of the grainings and the layer c3 is recessed corresponding to the dents of grainings. Thus, a transparent biaxially oriented polypropylene film (OPP) was primed with an acrylic polyol-HDI system polyurethane adhesive and applied with a 2-pot curable vinyl acetate resin-based adhesive (BA 10) on the back side successively. The surface of OPP was applied with a gloss-controlling coating contg. an

acrylic polyol, HDI, and SiO2. The obtained decorative sheet was placed

L4 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2002 ACS

AN 2001:755573 CAPLUS

appearance.

DN 135:305428

TI Decorative boards for floors with good water resistance and their manufacture

on an oak sliced veneer plate/medium-d. **fiberboard** laminated substrate and cold pressed to give a decorative plate having good

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Ishida, Seiichi
IN
    Dainippon Printing Co., Ltd., Japan
PΑ
    Jpn. Kokai Tokkyo Koho, 10 pp.
SO
    CODEN: JKXXAF
DT
    Patent
    Japanese
LΑ
FAN.CNT 1
                                       APPLICATION NO. DATE
    PATENT NO. KIND DATE
    PATENT NO. KIND DATE
    JP 2001287208 A2 20011016
The boards comprise 7
                                        ______
                                       JP 2000-104009 20000405
PΙ
    The boards comprise a plywood layer having tongues and grooves, a
AΒ
    medium-d. fiberboard (MDF) layer, an adhesive layer, and a
    surface protective layer-contg. decorative sheet. Grooved are formed
    between the MDF and surface protective layers, and coated with
    water-resistant polymers (e.g., polyurethanes).
    ANSWER 8 OF 34 CAPLUS COPYRIGHT 2002 ACS
L4
    2001:463126 CAPLUS
AN
DN
    135:62355
    Recyclable polymer automobile interior parts
TI
    Suzuki, Miho; Kumagaya, Ikuo
IN
    Kasai Kogyo Co., Ltd., Japan
PA
    Jpn. Kokai Tokkyo Koho, 6 pp.
SO
    CODEN: JKXXAF
DT
    Patent
LΑ
    Japanese
FAN.CNT 1
    PATENT NO. KIND DATE
                                 APPLICATION NO. DATE
    JP 2001171042 A2 20010626 JP 1999-362139 19991221
PΙ
    The parts are manufd. by laminating polyolefin foam pads and polyolefin
AB
    surface sheets on core boards in this order by high-frequency welding.
    Thus, a laminate comprised sequential layers of a thermoplastic
     surface sheet contq. EVA, a polyethylene foam contg. EVA, and a hardboard,
    useful for door trims.
    ANSWER 9 OF 34 CAPLUS COPYRIGHT 2002 ACS
T.4
    2001:441173 CAPLUS
AN
    135:34192
DN
    Scratch- and weather-resistant decorative sheets and their laminated
TI
    materials
    Tateno, Tomoshi
IN
    Dainippon Printing Co., Ltd., Japan
PA
    Jpn. Kokai Tokkyo Koho, 12 pp.
SO
    CODEN: JKXXAF
DT
    Patent
LΑ
    Japanese
FAN.CNT 1
    PATENT NO. KIND DATE APPLICATION NO. DATE
    PATENT NO. KIND DATE
    JP 2001162731 A2 20010619 JP 1999-348702 19991208
PΤ
    The sheets are laminates consisting of transparent ionomer resin
     films, colored polyolefin sheets, and design layers in between. Thus, a
    polypropylene sheet contg. isotactic and atactic
    polypropylenes was successively coated with a urethane primer,
     vinyl chloride-vinyl acetate copolymer-based gravure ink to form grain
    patterns, and the urethane primer and then laminated with Himilan (ionomer
```

- L4 ANSWER 10 OF 34 CAPLUS COPYRIGHT 2002 ACS
- AN 2001:232467 CAPLUS
- DN 134:253430
- TI Polyolefin laminated decorative sheet with improved peeling strength

resin) on the primer layer to give a decorative sheet.

IN Kuroda, Seiji

```
Dainippon Printing Co., Ltd., Japan
PA
     Jpn. Kokai Tokkyo Koho, 8 pp.
SO
     CODEN: JKXXAF
     Patent
DT
     Japanese
T.A
FAN.CNT 1
     PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2001088256 A2 20010403 JP 1999-265639 19990920
PΙ
     The sheet for prepn. of decorative sheet of a MDF (medium-d.
AΒ
     fiberboard) comprises a polyolefin laminate having a
     hardness 30-100 N/mm2 and a surface layer having a thickness 1-6 .mu.m.
     ANSWER 11 OF 34 CAPLUS COPYRIGHT 2002 ACS
     2001:18795 CAPLUS
AN
DN
     134:72648
ΤI
     Laminated fiberboards with good water resistance,
     processability, and pesticidal property
     Takase, Hideo; Sawada, Noritoshi
IN
     Hokushin Corp., Japan
PΑ
     Jpn. Kokai Tokkyo Koho, 7 pp.
SO
     CODEN: JKXXAF
DT
     Patent
LΑ
     Japanese
FAN.CNT 1
     PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2001001312 A2 20010109 JP 1999-175778 19990622
PΤ
     The boards, useful for construction materials, are manufd. by laminating
AB
     wood fiberboards, which have a middle d. layer on the surface,
     on both sides of a plastic foam core layer via adhesives contg. pesticidal
     preservatives and further laminating sheet materials on at least one side
     via the adhesives. Thus, a laminate comprising a polyurethane
     foam layer, a fiberboard having a surface layer with sp. gr.
     0.35-0.8 on both sides, a PET/Al/PET laminated film, a
     paper/polyethylene/paper laminated sheet, and preservative-contg.
     adhesives showed good termiticidal and fungicidal properties.
     ANSWER 12 OF 34 CAPLUS COPYRIGHT 2002 ACS
T.4
     2000:732894 CAPLUS
AN
     133:297408
DN
     Decorative laminated sheets and materials with no blushing and good
TI
     moldability
IN
     Sakamoto, Toru
     Dainippon Printing Co., Ltd., Japan
PA
SO
     Jpn. Kokai Tokkyo Koho, 10 pp.
     CODEN: JKXXAF
DT
     Patent
     Japanese
LΑ
FAN.CNT 1
     PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2000289155 A2 20001017 JP 1999-105041 19990413
PΙ
     The decorative sheets, useful for building and automobile interiors, etc.,
AB
     comprise protective sheets having decorative layers dry-laminated with
     color support sheets contq. 20-40% olefin-based thermoplastic elastomers
     via adhesive layers and further laminated with adhesive layers. Thus, a
     polyolefin protective layer printed with an acrylic polyurethane (AP) ink
     was dry-laminated with a color support sheet contg. 70% atactic
     polypropylene and 30% hydrogenated butadiene-styrene rubber via a
     polyester-polyurethane adhesive, embossed on the protective layer, coated
     with an AP ink and a top coating, and coated on the other side with an AP
     primer layer to give a decorative sheet, which was laminated on a
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middle-d. fiberboard having a concave part via a polyurethane

adhesive layer to give a laminated decorative material with no blushing and good moldability.

- L4 ANSWER 13 OF 34 CAPLUS COPYRIGHT 2002 ACS
- AN 2000:427823 CAPLUS
- DN 133:44583
- TI Decorative sheet involving PVC layer and polyolefin layer for molding and decorative material using the sheet
- IN Sakamoto, Akira
- PA Dainippon Printing Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 10 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 2000177071 A2 20000627 JP 1998-358788 19981217

The sheet involves a PVC support and a polyolefin protective layer wherein AB .qtoreq.1 of the layers are decorated. The decorative material is made of a substrate and the sheet which is laminated on the PVC support side so that the protective layer is on the surface. The substrate may be building or automobile interior, furniture, etc. Thus, a PVC colored opaque sheet was printed to form a decorative layer, which was laminated with a thermoplastic elastomer protective layer comprising polypropylene as hard segment and hydrogenated butadiene-styrene rubber as soft segment so that the decorative layer is inside by using a polyester-polyurethane adhesive. Then, the resulting laminate was embossed on the protective layer, applying a color ink on the embossed surface, and overcoated to give the decorative material, which was laminated on a medium-d. fiberboard (MDF) by vacuum forming to qive a test piece showing retention of original surface luster of the decorative material.

- L4 ANSWER 14 OF 34 CAPLUS COPYRIGHT 2002 ACS
- AN 2000:388758 CAPLUS
- DN 133:5695
- TI Decorative sheet and decorative material made from the same
- IN Sakamoto, Akira
- PA Dainippon Printing Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 12 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese

FAN.CNT 1

ΡI

 	•			
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		-		
JP 2000158605	A2	20000613	JP 1998-336824	19981127
JP 3316749	B2	20020819		

- AB The sheet for prepn. of decorative materials with good appearance comprises an acrylic polymer substrate and a polyolefin protective layer. Thus, a sheet for MDF **fiberboard** surface was made from a photogravure-printed acrylic polymer sheet, a polyurethane-polyester adhesive and a surface layer of isotactic **polypropylene** and hydrogenated SBR blend.
- L4 ANSWER 15 OF 34 CAPLUS COPYRIGHT 2002 ACS
- AN 2000:342220 CAPLUS
- DN 132:348664
- TI Composite structures with good durability and low friction for surface materials
- IN Sasao, Akihiro
- PA Japan
- SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LΑ Japanese

FAN.CNT 1

PΙ

JP 2000140192 A2 20000523 JP 1998-324189 10000 -----

JP 2000140192 A2 20000523 JP 1998-324189 19981113
The structures, useful for artificial skating surface, consist of (a) a AB substrate with uniform size and cross section having 2 flat surfaces and (b) .gtoreq.1 polymeric layer(s), preferably contg. low friction materials selected from silicone resins and silicone oils, laminated on the flat surface(s) of the substrate. Optionally, the structures are combined together with splines fitted in grooves on the structures. Thus, a polymeric layer comprising polyethylene 98.7877, optical brightener 0.022, antioxidants 0.0599, hydrophobic component 0.2004, UV stabilizers 0.5, antistatic agent 0.1, TiO2 0.33, and inorg. pigment 0.0169% was used to give a structure, showing good skating property.

- ANSWER 16 OF 34 CAPLUS COPYRIGHT 2002 ACS L4
- 2000:62488 CAPLUS AN
- DN 132:94509
- ΤI Wooden appearance decorative boards
- Yanagi, Shuji; Uenishi, Nobuaki; Eguchi, Shinichi; Abe, Masanori; Funase, IN Tadaaki
- PA Bridgestone Corp., Japan
- Jpn. Kokai Tokkyo Koho, 5 pp. SO

CODEN: JKXXAF

DTPatent

LΑ Japanese

FAN.CNT 1

PΙ

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2000025015 A2 20000125 JP 1998-193401 19980708

The title boards, without warping and useful for buildings, automobile AB interiors, furniture, etc. (no data), comprise a base board (e.g., plywood, fiberboard, particleboard), a thermosetting resin- or thermoplastic-impregnated woven or nonwoven fabric (e.g., paper, kraft paper, Rayon paper, glass fibers, vinylon fibers, or polyester fibers impregnated by phenolic resins, epoxy resins, polyurethanes, polyesters, polyethylene, polypropylene, polystyrene), and a decorative surface layer, providing the impregnated resin contg. shrink-preventing agents (e.g., rubber, heat stabilizers, reinforcing agents, fireproofing agents, antistatic agents, surfactants).

- ANSWER 17 OF 34 CAPLUS COPYRIGHT 2002 ACS L4
- 1999:716215 CAPLUS AN
- 131:323668 DN
- Water-based adhesives having good heat resistance and thermal shock ΤI resistance and their laminates
- Onishi, Isao; Nakamae, Masato; Murakami, Tetsuo IN
- PA Kuraray Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

- DT Patent
- LΑ Japanese

FAN. CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE -----PI JP 11310764 A2 19991109 PRAI JP 1998-43069 19980225 JP 1998-222529 19980806

The adhesives comprise (A) water-based dispersions of copolymers with Tg -40.degree. to -5.degree. and contg. ethylene (I) and C8-12 carboxylic acid vinyl esters (CVE) as the principle components, where I + CVE .qtoreq.90% and I/CVE = 5/95-50/50, (B) water-based dispersions of

copolymers with Tq -10.degree. to 25.degree. and contg. I and vinyl acetate (II) as the principle components, where I + II .gtoreq.95%, I/II = 5/95-40/60, and (C) tackifiers with softening point 100-150.degree., where solid wt. is A/B = 10/90-95/5, (A + B)/C = 100/5-100/200. Laminates of (inorg. reinforcement-contg.) plastics/the adhesive/woody materials are also claimed. The adhesives show excellent adhesion in ordinary environment, under heat, and hot-cold repeating treatment. The laminates have min. thermal deformation and edge peeling. Thus, 90 parts 20:75:5 I-VeoVa 10-II copolymer emulsion (stabilizer PVA/nonionic emulsifier, Tg = -25.degree., solid 50%), 10 parts 20:80 I-II copolymer emulsion (stabilizer PVA, Tg 0.degree., solid 55%), and 50 parts a rosin emulsion (Super Ester E 625, softening point 125.degree., solid 50%) were mixed to give an adhesive. A mica-reinforced polypropylene sheet was laminated with a MDF (medium d. fiberboard) to give test pieces showing no edge peeling after subjecting to thermal shock (3 cycles of 80.degree. for 2 h, -10.degree. for 2 h).

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L4 ANSWER 18 OF 34 CAPLUS COPYRIGHT 2002 ACS
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- AN 1999:626114 CAPLUS
- DN 131:244764
- TI Wood based plate provided with surface and method to provide the surface .
- IN Ollila, Timo; Asikainen, Marjaliisa; Juvonen, Arto
- PA Schauman Wood Oy, Finland
- SO PCT Int. Appl., 19 pp.
- CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

	PAT	TENT NO.	KIND	DATE	APPLICATION NO. DATE
ΡI	WO	9948683	A1	19990930	WO 1999-FI203 19990317
		W: JP, US			
		RW: AT, BE,	CH, CY	, DE, DK,	ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
		PT, SE			
	FI	9800640	Α	19990921	FI 1998-640 19980320
	ΕP	1068074	A1	20010117	EP 1999-908983 19990317
		R: BE, DE,	DK, ES	, FR, GB,	IT, NL, SE
	JP	2002507503	T2	20020312	JP 2000-537705 19990317
	US	6451444	B1	20020917	US 2000-654411 20000901
PRAI	FΙ	1998-640	Α	19980320	
	WO	1999-FI203	W	19990317	

AB A surfaced wood-based board comprises a substrate made of wood material and a surface layer comprising .gtoreq.1 a thermoplastic layer, e.g., a polyamide film which is glued to the surface of the substrate by a reactive adhesive layer. The adhesive layer is based on phenolic resin, polyester resin, epoxy resin, isocyanate adhesive or polyurethane adhesive, and it is an adhesive film impregnated with reactive adhesive, such as an impregnated paper. A surfaced board is produced by hot-pressing, which is used to attach the films to each other and the substrate.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L4 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2002 ACS
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- AN 1999:530598 CAPLUS
- DN 131:159084
- TI Moistureproof sheets and wood boards covered therewith
- IN Nishida, Kunio; Katsuma, Yuki
- PA Eidai Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 3 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese

FAN.CNT 1

APPLICATION NO. DATE KIND DATE PATENT NO. JP 11227112 A2 19990824 JP 1998-37205 19980219

ΡI

One side of paper is laminated with 2 layers consisting of 2 resins having AB different m.p., where the higher-m.p. resin layer is placed to contact with paper and acts as a moistureproof layer and the lower-m.p. resin layer acts as an adhesive layer. Thus, Kraft paper was coated with molten polypropylene and further coated with molten polyethylene to give a moistureproof sheet. A medium-d. fiberboard was covered with the sheet and hot pressed to give a product showing no size change after 3 days at 40.degree. and relative humidity 90%.

- ANSWER 20 OF 34 CAPLUS COPYRIGHT 2002 ACS L4
- 1999:498092 CAPLUS ΔN
- 131:131046 DN
- Composites of wastepaper and thermoplastic films with high tensile ΤI strength and manufacture thereof
- IN Suga, Yoshinori
- Mitsubishi Chemical Industries Ltd., Japan PA
- SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

- DT Patent
- Japanese LΑ

FAN.CNT 1

ΡĪ

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 11216831 A2 19990810 JP 1998-20713 19980202

The composites are prepd. by alternately laminating plastic films with cut AB paper to form laminates having .gtoreq.5 layers and hot-pressing the laminates. The composites are useful as substitutes for wood, plywood, fiberboards, and thermoplastics (no data). Polypropylene (I) film was coated with shreded paper to form a laminate having 57 alternate layers of I and paper and pressed 3

min at 190.degree. to give a composite with I content 27% and exhibiting bending strength 45.2 mPa, bending modulus 3020 mPa, and Rockwell hardness 90.0 and showing good water resistance and good cutting properties.

- ANSWER 21 OF 34 CAPLUS COPYRIGHT 2002 ACS L4
- 1998:256057 CAPLUS AN
- DN 128:283836
- Decorative boards with reduced warpage by moisture absorption and flash ΤI panels therefrom
- IN Harano, Shunichi
- PA Dantani Plywood Co., Ltd., Japan
- Jpn. Kokai Tokkyo Koho, 4 pp. SO

CODEN: JKXXAF

- DTPatent
- LΑ Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 10109380 A2 19980428 JP 1996-286021 19961007

AB The decorative boards are prepd. by bonding one side of wood boards to the moisture-impermeable polymer (A) layer of a paper laminate having A as the back layer and laminating the remaining side of the boards with a backing paper, and flash panels are prepd. by laminating two sides of a core material with the decorative boards using adhesives. Paper was printed on the surface, coated with a polyurethane, laminated on the back side with polypropylene (I) extrudate, and exposed to corona on I side to form a decorative paper. A medium-d. fiberboard was laminated on the surface with the decorative paper using a waterborne vinylurethane adhesive and subsequently laminated on the back side with a laminate of paper with I extrudate using a vinylurethane adhesive

to give a decorative board with warpage .apprx.-0.5 mm after 7 h at 25.degree. and 60% relative humidity (one side) and at 20.degree. and 90% relative humidity (remaining side). A core material was sandwiched between two of the decorative board using poly(vinyl acetate) adhesive to give a flash panel with a hollow structure.

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L4 ANSWER 22 OF 34 CAPLUS COPYRIGHT 2002 ACS
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AN 1998:210598 CAPLUS

DN 128:271756

TI Antisoiling decorative sheets

IN Sendai, Hisami

PA Dainippon Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 10086314 A2 19980407 JP 1996-269457 19960919

AB Title sheets are prepd. by decoratively treating laminates of thermoplastic resin sheets and crosslinked coating surface layers from compns. contg. metal chelate catalysts and acrylic resins (A) contg. silanol, epoxy, and OH groups. Coating an elec. corona-treated PET film with a soln. contg. A and a Al chelate catalyst, baking, printing the other side of the PET film with polyurethane- and vinyl acetate-vinyl chloride copolymer-contg. colored inks, covering an adhesive on the printed surface, and laminating a colored PVC sheet on the adhesive

surface gave a decorative sheets, which could be bound on steel panels.

L4 ANSWER 23 OF 34 CAPLUS COPYRIGHT 2002 ACS

AN 1998:55880 CAPLUS

DN 128:141809

TI Plastic surface sheets for decorative boards with improved scratch resistance and their manufacture and manufacture of decorative boards using them

IN Murakami, Hideyuki; Hori, Tetsu

PA C. I. Kasei Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PΙ

AΒ

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 10016139 A2 19980120 JP 1996-176745 19960705

The surface sheets are prepd. by forming a heat-resistant polymer layer (A) on one side of a polyester film, subsequently forming a UV-curable polymer layer (B) on A layer to form a laminate with B layer releasable from A layer on curing B layer, covering B layer with a protective film, and simultaneously removing the protective film from the laminate and pressing together the surface of B layer and one side of an extruded thermoplastic polymer sheet and optionally press-bonding a printed sheet to the remaining side of the thermoplastic sheet. The decorative boards are prepd. by adhering the thermoplastic layer of the surface sheet to the surface of porous wood base materials with embossed patterns, curing B layer by exposure of the layer to UV rays, and removing the polyester film and A layer from the laminate. The boards are useful for furniture, kitchen cabinets, and automobile parts. PET (T-92) film was coated on one side with a mixt. contg. an acrylic resin, EX 114D (curing agent), and PTC 7 (acid catalyst), cured 30 s at 130.degree. to form a heat-resistant layer, coated with Yupimer H 2000B (UV-curable resin), dried, and laminated with a colored rigid PVC sheet to give a surface sheet. An adhesive-coated embossed medium-d.

fiberboard was bonded to PVC side of the surface sheet at 90.degree. and exposed to UV rays to give a decorative board showing pencil hardness 2 H, surface luster 80%, and good scratch resistance.

- ANSWER 24 OF 34 CAPLUS COPYRIGHT 2002 ACS
- AN 1997:787567 CAPLUS
- DN 128:49722
- Water-resistant decorative wood boards with good dimensional stability ΤI
- Todoroki, Kiichiro ΤN
- Dantani Plywood Co., Ltd., Japan PΑ
- Jpn. Kokai Tokkyo Koho, 3 pp. SO

CODEN: JKXXAF

- DT Patent
- Japanese LΑ
- FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 09314523 A2 19971209 JP 1996-156065 19960527 PΙ

The boards are prepd. by sandwiching oriented polypropylene (I) AB film between the surface of fiberboards or particleboards with d. from 0.35 g/cm3 to <0.80 g/cm3 and a decorative material. The boards are useful for walls and floors. A medium-d. fiberboard was coated on two sides with ethylene-vinyl acetate copolymer adhesive, laminated on two sides with oriented I film, and pressed together with a wood veneer at 110-180.degree. to give a decorative board with good dimensional stability and good resistance to water or moisture.

- ANSWER 25 OF 34 CAPLUS COPYRIGHT 2002 ACS L4
- 1997:786076 CAPLUS AN
- DN 128:49720
- Dimensionally stable water-resistant decorative boards ΤI
- IN Kita, Kouichi
- PΑ Dantani Plywood Co., Ltd., Japan
- Jpn. Kokai Tokkyo Koho, 3 pp. SO CODEN: JKXXAF
- DTPatent
- T.A Japanese
- FAN.CNT 1

PΙ

PATENT NO. KIND DATE APPLICATION NO. DATE JP 09314520 A2 19971209 JP 1996-156064 19960527

The boards are prepd. by laminating the surface of fiberboards AΒ or particleboards with d. from 0.35 g/cm3 to <0.80 g/cm3 as the base board with nonwoven fabric laminates or reinforced paper laminates contg. moisture-nonpermeable films as the middle layer and subsequently laminating the material with a decorative surface material. The boards are useful for walls and floors. A medium-d. fiberboard was coated on two sides with poly(vinyl acetate) adhesive, coated on two sides with poly(vinyl acetate) adhesive, sandwiched between two moisture-nonpermeable sheets [prepd. by sandwiching poly(vinylidene chloride) between two polypropylene nonwoven fabrics], coated on the surface with an adhesive, and pressed together

with a Japhaese oak veneer at 150-180.degree. to give a water-resistant decorative board exhibiting good dimensional stability.

- ANSWER 26 OF 34 CAPLUS COPYRIGHT 2002 ACS
- AN 1997:754145 CAPLUS
- DN 128:62576
- Laminates of papers and hydrogenated diene polymer-based ТT composition layers
- IN Takesaki, Takayuki; Koshina, Junji
- Japan Synthetic Rubber Co., Ltd., Japan PA
- Jpn. Kokai Tokkyo Koho, 7 pp. SO

CODEN: JKXXAF

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Patent
DT
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Japanese LΑ

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE JP 09300535 A2 19971125 ______

JP 1996-146428 PΙ JP 09300535 19960517

Title laminates showing improved interlayer adhesion, whose AΒ wastes can be combustible with low calorie, consist of papers and hydrogenated diene polymers optionally assocd. with polyolefins. Thus, a fiberboard was inserted in a mold then 30:70 mixt. of 98%-hydrogenated 90:10 butadiene-styrene copolymer and MG05DS (polypropylene) was subjected to injection molding onto the mold to give a triple-layer laminate showing destruction in peeling

- L4ANSWER 27 OF 34 CAPLUS COPYRIGHT 2002 ACS
- ΔN 1997:654767 CAPLUS
- 127:264440 DN
- ΤI Water-resistant dimensionally stable decorative wood boards
- Sakai, Takeshi; Todoroki, Teruichiro IN
- Dantani Plywood Co., Ltd., Japan PΑ
- SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DΤ Patent

Japanese LΑ

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE JP 09254102 A2 19970930 JP 1996-96243 19960325

PΙ

The boards are prepd. by sandwiching hot-melt adhesive-impregnated AB nonwoven fabrics between the surface of wood fiber boards or particleboards having d. from 0.35 g/cm3 to <0.80 g/cm3 and the surface of decorative paper or boards. The boards are useful for wall or floor materials. A polyester nonwoven fabric was impregnated with an ethylene-vinyl acetate copolymer adhesive and a fiberboard (MDF), sandwiched between two of the nonwoven fabric, subsequently sandwiched between a wood board as the surface material and kraft paper as the back surface material, and pressed 1-2 min at 150-180.degree. to give a decorative board for floors.

- ANSWER 28 OF 34 CAPLUS COPYRIGHT 2002 ACS L4
- 1997:124229 CAPLUS AN
- DN 126:132397
- ΤI Embossed laminates of wood boards with plastics as decorative panels with reduced warpage and their manufacture
- IN Inagami, Kazuya
- PA Matsushita Electric Works Ltd, Japan
- Jpn. Kokai Tokkyo Koho, 5 pp. SO

CODEN: JKXXAF

- DТ Patent
- LΑ Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE JP 08318597 A2 19961203 JP 1995-126818 19950525

The decorative panels are prepd. by laminating a wood core material (e.g., fiberboard, plywood, or particleboard) with an embossed plastic (e.g., PVC, polypropylene, or ABS) molding, and sandwiching and sandwiching the laminate between decorative sheets. The panels are useful as building materials and in furniture (no data).

- ANSWER 29 OF 34 CAPLUS COPYRIGHT 2002 ACS L4
- 1993:193257 CAPLUS AN
- DN 118:193257

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TI Two-part adhesives from polyurethanes having hydrophilic groups
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IN Torii, Kousuke; Mori, Masahito; Okamoto, Hirokazu

PA Sunstar Engineering Inc., Japan

SO Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN. CNT 1

PAN.	CNII				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	EP 505986	A2	19920930	EP 1992-105059	19920324
	EP 505986	A3	19930113		
	R: DE, FR,	GB			
	JP 05112766	A2	19930507	JP 1992-98766	19920324
	JP 3317407	B2	20020826		
PRAI	JP 1991-86055	Α	19910325		

OS MARPAT 118:193257

Adhesives for bonding flexible PVC to polyolefin-impregnated wood fiber composites contain products of polyisocyanates, satd. polyester polyols, and compds. having hydrophilic and .gtoreq.2 NCO-reactive groups and optionally, urethane rubber in 1 component and polyisocyanates in the curing component. Thus, Me2CO contg. Desmocoll 500 (urethane rubber) 100, 2:4.5:20:100 (wt. ratio) ethylene glycol (I)-2,2-dimethylolpropionic acid-HDI-poly(hexamethylene adipate) (II) reaction product (III) 50, and Desmodur R (triphenylmethane triisocyanate) 50 g was sprayed on polypropylene-impregnated wood fiber sheet pressed to a flexible PVC sheet to give a laminated with adhesion strength 2.2 kg/25 mm (cohesive failure), compared with 0.9 (adhesive failure) for a similar laminate contg. I-HDI-II reaction product instead of III in the adhesive.

- L4 ANSWER 30 OF 34 CAPLUS COPYRIGHT 2002 ACS
- AN 1986:562289 CAPLUS
- DN 105:162289
- TI Masking film and preparation of photocured printing plate
- IN Omura, Toshio; Kitamura, Minoru
- PA Sekisui Chemical Co., Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PΙ

AB

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 61061162 A2 19860328 JP 1984-183095 19840831

An opaque masking film having .gtoreq.2 laminated and releasable opaque layers is claimed. The claimed method involves cutting and removal of the opaque layers from the film to obtain a mask having a pattern of desired shape and varying deg. of transmittancy, laminating the masking material onto a neg. photosensitive film, exposure for selective curing of the film, relief exposure from the film side to cure the pos. parts of the film, forming a relief pattern bonded to the support, and removal of the uncured parts of of the film. The material and method enable formation of complex multiple patterns by using a single exposure. Thus, a masking material was prepd. by coating both sides of a polyester film (transmittance at 300-400 nm 70%) with a mixt. of 100 parts PMMA and 0.5 part 2-(2-hydroxy-5-methylphenyl)benzotriazole to form 2 20-.mu. layers. The absorbance of the mask in the 300-400 nm region was 99.5%. The masking layers were cut and removed as desired, to form a mask of a pattern having 2 different levels of absorption. A neg. film placed on a glass plate was successively laminated with a releasable polypropylene cover film, a liq. photocurable polyamide layer, a polyester base film, and then with the patterned masking film. The laminate was irradiated from the mask side by UV and then from the

glass plate side. The masking film, glass plate, neg. film, and cover film were successively removed in this order. After mech. removal of uncured parts the material was postexposed while being immersed in surfactant-contg. water. Printing by using the obtained printing plate on a corrugated fiberboard produced clear prints.

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ANSWER 31 OF 34 CAPLUS COPYRIGHT 2002 ACS
L4
AN
    1983:507002 CAPLUS
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DN 99:107002

Multilayer fiber mat ΤI

Kiss, Guenter IN

Fed. Rep. Ger. PA

SO Fr. Demande, 17 pp. CODEN: FRXXBL

DTPatent

LΑ French

FAN.	CNT 2				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		-			
ΡI	FR 2513939	A1	19830408	FR 1982-16459	19820930
	FR 2513939	В1	19850705		
	DE 3233385	A1	19830428	DE 1982-3233385	19820906
	DE 3233385	C2	19840517		
PRAI	DE 1981-3139854		19811002		
	DE 1982-3233385		19820906		

Fiberboards, useful for molding into complex shapes, comprise AB wood-fiber center layers contg. a small amt. of synthetic fibers arranged in the center and a thermoplastic binder and 2 other layers contg. 10-30% of the total amt. of wood fibers in the boards and .gtoreq.1 thermosetting resin moldable in a press at 170-210.degree.. Thus, a center layer contg. wood fibers (40-55% with length >2000 .mu., 15-20% with length 1000-2000 .mu., 15-20% with length 500-1000 .mu., and 30-50% with length <500 .mu.) 57, bitumen (HVB 95/105) 7, polypropylene fibers 3.5, latex 1.5, and phenolic resin 1.05% was laminated at 195.degree. to 2 outer layers contq. wood fibers (length 3-8 mm) 22.58, bitumen 2.55, phenolic resin 0.38, Acronal 12DE [86923-02-6] (a polyacrylate) 3.78, carbon black 0.225, melamine resin 0.45, and wax 0.045% to give a sandwich laminate fiberboard contg. 15% fibers in the outer 2 layers and with the thickness of the outer layers being 30% of the thickness of the center layer. This sandwich fiberboard exhibited dry flexural strength 6000 N/cm2, water absorption 25% after 24 h, swelling 20% after 24 h, and d. 1.05 g/cm3.

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ANSWER 32 OF 34 CAPLUS COPYRIGHT 2002 ACS
L4
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AN 1980:216426 CAPLUS

92:216426 DN

ΤI Adhesion

Takano, Kenichi; Suzuki, Keisaku IN

PA

Jpn. Kokai Tokkyo Koho, 5 pp. SO

CODEN: JKXXAF

DTPatent

LΑ Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 54106545	A2	19790821	JP 1978-13702	19780209
	JP 62009634	B4	19870302		

Adhesives such as acrylic acid-Me acrylate copolymer ammonium salt (I), AR poly(vinyl alc.), etc. were sprayed with a soln. contg. a hardening agent such as polypropylene glycol diglycidyl ether (II), a melamine resin, etc. and used to bond materials for automobile ceilings and shoes. Thus, Me acrylate 37.5, acrylic acid 12.5, iso-PrOH 50, and AIBN 0.1 part were heated at reflux for 7 h, adjusted to pH 7.4 with aq. NH3, dild. with water to give a I soln. contg. 30% solids, coated on release paper, transferred to a polyurethane foam, sprayed with a soln. contg. water 70, iso-PrOH 30, and II 1 part, bonded to a resin board at 130.degree. (20 kg/cm2), and molded to prep. an automobile ceiling.

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ANSWER 33 OF 34 CAPLUS COPYRIGHT 2002 ACS
L4
AN
    1975:607800 CAPLUS
    83:207800
DN
ΤI
    Laminating wax composition
IN
   Hollstein, Elmer J.
    Sun Oil Co., USA
PΑ
SO
    U.S., 6 pp.
    CODEN: USXXAM
DT
    Patent
    English
LА
FAN.CNT 2
    PATENT NO. KIND DATE APPLICATION NO. DATE
                                     ______
PI US 3907735 A 19750923
                                     US 1970-68801 19700901
PRAI US 1966-558466
                        19660617
    US 1966-558466 19660617
US 1968-706738 19680116
    Petroleum waxes contg. 2.5-10.0% atactic 26.2:73.8 ethylene-propylene
    block copolymer (I) [9010-79-1] were laminated with glassine paper to
    prep. water-resistant fiberboard. The waxes contg. I had higher
    viscosity and better adhesion to paper, compared with waxes contg. atactic
    polypropylene.
    ANSWER 34 OF 34 CAPLUS COPYRIGHT 2002 ACS
L4
    1975:460879 CAPLUS
AN
    83:60879
DN
TI Lamination of building materials
IN Wurmb, Rolf; Welz, Martin
PA
    BASF A.-G.
SO
    Ger. Offen., 7 pp.
    CODEN: GWXXBX
DT
    Patent
LΑ
    German
FAN.CNT 1
    PATENT NO. KIND DATE APPLICATION NO. DATE
    -----
    DE 2311128 A1 19740912
DE 2311128 C2 19821216
                                     DE 1973-2311128 19730307
PΙ
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Pairs of urethane foam plates, glass fiber-reinforced and unsatd. polyester plates, and **fiberboards** were bonded to one another by a hot-melt adhesivefrom a glass fiber-reinforced polyolefin, i.e. polyethylene (I) and **polypropylene** [9003-07-0], heated to temps. above its m.p. Thus, two 30 mm thick polyurethane foam plates were laminated by an intermediate 30 mm thick, glass fiber mat(25%)-reinforced I sheet (heated at 230.degree.) and pressing together.

=> LOG Y COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	86.76	86.97
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY -21.06	SESSION -21.06

STN INTERNATIONAL LOGOFF AT 13:24:56 ON 22 NOV 2002